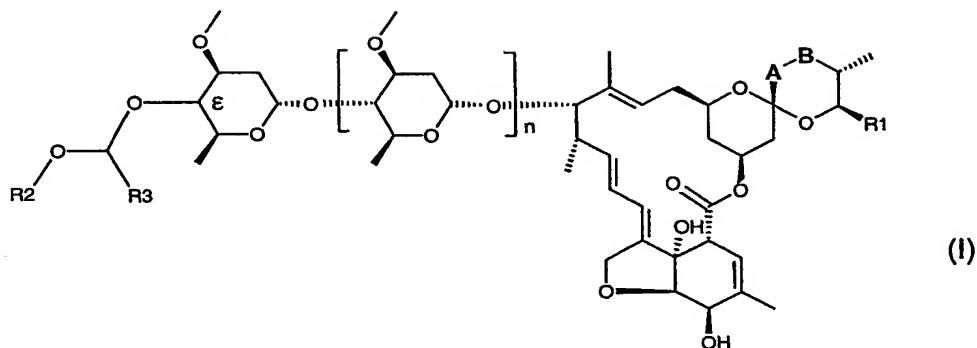


What is claimed is:

## 1. A compound of formula



wherein

$n$  is 0 or 1;

A-B is  $-\text{CH}=\text{CH}-$  or  $-\text{CH}_2-\text{CH}_2-$ ;

$\text{R}_1$  is  $\text{C}_1\text{-C}_{12}$ -alkyl,  $\text{C}_3\text{-C}_8$ -cycloalkyl or  $\text{C}_2\text{-C}_{12}$ -alkenyl;

$\text{R}_2$  is  $\text{C}_1\text{-C}_{12}$ -alkyl,  $\text{C}_2\text{-C}_{12}$ -alkenyl,  $\text{C}_2\text{-C}_{12}$ -alkynyl; or  $\text{C}_1\text{-C}_{12}$ -alkyl,  $\text{C}_2\text{-C}_{12}$ -alkenyl or  $\text{C}_2\text{-C}_{12}$ -alkynyl, which are substituted with one to five substituents selected from the group consisting of OH, halogen, CN,  $-\text{N}_3$ ,  $-\text{NO}_2$ ,  $\text{C}_3\text{-C}_8$ -cycloalkyl which is optionally substituted with one to three  $\text{C}_1\text{-C}_6$ -alkyl-groups,  $\text{C}_3\text{-C}_8$ -cycloalkenyl which is optionally substituted with one to three  $\text{C}_1\text{-C}_6$ -alkyl-groups, norbornylenyl-,  $\text{C}_3\text{-C}_8$ -halocycloalkyl,  $\text{C}_1\text{-C}_{12}$ -alkoxy,  $\text{C}_1\text{-C}_6$ -alkoxy- $\text{C}_1\text{-C}_6$ -alkoxy,  $\text{C}_3\text{-C}_8$ -cycloalkoxy,  $\text{C}_1\text{-C}_{12}$ -haloalkoxy,  $\text{C}_1\text{-C}_{12}$ -alkylthio,  $\text{C}_3\text{-C}_8$ -cycloalkylthio,  $\text{C}_1\text{-C}_{12}$ -haloalkylthio,  $\text{C}_1\text{-C}_{12}$ -alkylsulfinyl,  $\text{C}_3\text{-C}_8$ -cycloalkylsulfinyl,  $\text{C}_1\text{-C}_{12}$ -haloalkylsulfinyl,  $\text{C}_3\text{-C}_8$ -halocycloalkylsulfinyl,  $\text{C}_1\text{-C}_{12}$ -alkylsulfonyl,  $\text{C}_3\text{-C}_8$ -cycloalkylsulfonyl,  $\text{C}_1\text{-C}_{12}$ -haloalkylsulfonyl,  $\text{C}_3\text{-C}_8$ -halocycloalkylsulfonyl,  $-\text{NR}_4\text{R}_6$ ,  $-\text{X}-\text{C}(=\text{Y})-\text{R}_4$ ,  $-\text{X}-\text{C}(=\text{Y})-\text{Z}-\text{R}_4$ ,  $-\text{P}(=\text{O})(\text{OC}_1\text{-C}_6\text{-alkyl})_2$ , aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy; wherein the aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy groups are optionally – depending on the substitution possibilities on the ring – substituted with one to five substituents selected from the group consisting of OH, Halogen, CN,  $\text{NO}_2$ ,  $\text{C}_1\text{-C}_{12}$ -alkyl,  $\text{C}_3\text{-C}_8$ -Cycloalkyl,  $\text{C}_1\text{-C}_{12}$ -Haloalkyl,  $\text{C}_1\text{-C}_{12}$ -alkoxy,  $\text{C}_1\text{-C}_{12}$ -Haloalkoxy,  $\text{C}_1\text{-C}_{12}$ -alkylthio,  $\text{C}_1\text{-C}_{12}$ -haloalkylthio,  $\text{C}_1\text{-C}_6$ -alkoxy- $\text{C}_1\text{-C}_6$ -alkyl,  $\text{C}_2\text{-C}_8$ -alkenyl,  $\text{C}_2\text{-C}_8$ -alkynyl,  $\text{Si}(\text{C}_1\text{-C}_{12}\text{-alkyl})_3$ ,  $-\text{X}-\text{C}(=\text{Y})-\text{R}_4$ ,  $-\text{X}-\text{C}(=\text{Y})-\text{Z}-\text{R}_4$ , aryl, aryloxy, heterocyclyl and heterocyclyloxy; or

$\text{R}_2$  is aryl, heterocyclyl  $\text{C}_3\text{-C}_8$ -Cycloalkyl,  $\text{C}_3\text{-C}_8$ -Cycloalkenyl; or aryl, heterocyclyl

C<sub>3</sub>-C<sub>8</sub>-Cycloalkyl or C<sub>3</sub>-C<sub>8</sub>-Cycloalkenyl, which are optionally – depending on the substitution possibilities on the ring – substituted with one to five substituents selected from the group consisting of OH, halogen, CN, NO<sub>2</sub>, C<sub>1</sub>-C<sub>12</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkyl, C<sub>1</sub>-C<sub>12</sub>-haloalkyl, C<sub>1</sub>-C<sub>12</sub>-alkoxy, C<sub>1</sub>-C<sub>12</sub>-haloalkoxy, C<sub>1</sub>-C<sub>12</sub>-alkylthio, C<sub>1</sub>-C<sub>12</sub>-haloalkylthio, C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, dimethylamino-C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>2</sub>-C<sub>8</sub>-alkenyl, C<sub>2</sub>-C<sub>8</sub>-alkinyl, methylenedioxy, aryl, aryloxy, heterocyclyl and heterocyclyloxy;

R<sub>3</sub> is H, C<sub>1</sub>-C<sub>12</sub>-alkyl or C<sub>1</sub>-C<sub>12</sub>-alkyl which is substituted with one to five substituents selected from the group consisting of OH, halogen, CN, -N<sub>3</sub>, -NO<sub>2</sub>, C<sub>3</sub>-C<sub>8</sub>-Cycloalkyl which is optionally substituted with one to three C<sub>1</sub>-C<sub>6</sub>-alkyl groups, norbornylenyl-, C<sub>3</sub>-C<sub>8</sub>-Cycloalkenyl which is optionally substituted with one to three methyl groups; C<sub>3</sub>-C<sub>8</sub>-halocycloalkyl, C<sub>1</sub>-C<sub>12</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>3</sub>-C<sub>8</sub>-cycloalkoxy, C<sub>1</sub>-C<sub>12</sub>-haloalkoxy, C<sub>1</sub>-C<sub>12</sub>-alkylthio, C<sub>3</sub>-C<sub>8</sub>-cycloalkylthio, C<sub>1</sub>-C<sub>12</sub>-haloalkylthio, C<sub>1</sub>-C<sub>12</sub>-alkylsulfinyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkylsulfinyl, C<sub>1</sub>-C<sub>12</sub>-haloalkylsulfinyl, C<sub>3</sub>-C<sub>8</sub>-halocycloalkylsulfinyl, C<sub>1</sub>-C<sub>12</sub>-alkylsulfonyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkylsulfonyl, C<sub>1</sub>-C<sub>12</sub>-haloalkylsulfonyl, C<sub>3</sub>-C<sub>8</sub>-halocycloalkylsulfonyl, -NR<sub>4</sub>R<sub>6</sub>, -X-C(=Y)-R<sub>4</sub>, -X-C(=Y)-Z-R<sub>4</sub>, -P(=O)(OC<sub>1</sub>-C<sub>6</sub>-alkyl)<sub>2</sub>, aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy; wherein the aryl, heterocyclyl, aryloxy, arylthio and heterocyclyloxy groups are optionally – depending on the substitution possibilities on the ring – substituted with one to five substituents selected from the group consisting of OH, Halogen, CN, NO<sub>2</sub>, C<sub>1</sub>-C<sub>12</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-Cycloalkyl, C<sub>1</sub>-C<sub>12</sub>-Haloalkyl, C<sub>1</sub>-C<sub>12</sub>-alkoxy, C<sub>1</sub>-C<sub>12</sub>-Haloalkoxy, C<sub>1</sub>-C<sub>12</sub>-alkylthio, C<sub>1</sub>-C<sub>12</sub>-haloalkylthio, C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>8</sub>-alkenyl, C<sub>2</sub>-C<sub>8</sub>-alkinyl, Si(C<sub>1</sub>-C<sub>12</sub>-alkyl)<sub>3</sub>, -X-C(=Y)-R<sub>4</sub>, -X-C(=Y)-Z-R<sub>4</sub>, aryl, aryloxy, heterocyclyl and heterocyclyloxy; or

R<sub>2</sub> and R<sub>3</sub> together are a three- to seven-membered alkylene- or a four- to seven-membered alkenylenebridge, wherein one or two CH<sub>2</sub>-groups may independently of each other be replaced by a group -C(=O)-, -C(=S)-, O, S, -NR<sub>5</sub>, -OC(=O)-O, -OC(=O)S-, -OC(=O)N(R<sub>5</sub>)-, -C(=O)O-, -C(=O)S-, -C(=O)N(R<sub>5</sub>)-, -N(R<sub>5</sub>)C(=O)S-, -N(R<sub>5</sub>)C(=O)N(R<sub>5</sub>)-, and wherein the alkylene or alkenylenebridge may be independently of each other substituted with one or two substituents selected from the group consisting of C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy and C<sub>1</sub>-C<sub>4</sub>-halogenalkyl;

X is O, NR<sub>5</sub> or a bond;

Y is O or S;

Z is O, S or NR<sub>5</sub>

$R_4$  is H,  $C_1$ - $C_{12}$ -alkyl which is optionally substituted with one to five substituents selected from the group consisting of halogen, hydroxy,  $C_1$ - $C_6$ -alkoxy and CN;  $C_2$ - $C_8$ -alkenyl,  $C_2$ - $C_8$ -alkinyl, aryl, heterocyclyl, aryl- $C_1$ - $C_{12}$ -alkyl, heterocyclyl- $C_1$ - $C_{12}$ -alkyl; or aryl, heterocyclyl, aryl- $C_1$ - $C_{12}$ -alkyl or heterocyclyl- $C_1$ - $C_{12}$ -alkyl, which are – depending on the substitution possibilities – optionally substituted in the ring with one to five substituents selected from the group consisting of halogen,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -haloalkyl and  $C_1$ - $C_6$ -haloalkoxy;

$R_5$  is H,  $C_1$ - $C_8$ -alkyl,  $C_3$ - $C_8$ -cycloalkyl,  $C_2$ - $C_8$ -alkenyl,  $C_2$ - $C_8$ -alkinyl, benzyl or  $-C(=O)$ - $C_1$ - $C_{12}$ -alkyl;

$R_6$  is H,  $C_1$ - $C_{12}$ -alkyl which is optionally substituted with halogen,  $C_1$ - $C_6$ -alkoxy, CN,  $C_2$ - $C_8$ -alkenyl,  $C_2$ - $C_8$ -haloalkenyl,  $C_2$ - $C_8$ -alkinyl,  $C_1$ - $C_{12}$ -Haloalkenyl,  $-X-C(=Y)-R_9$ ,  $-X-C(=Y)-Z-R_9$ ,  $-SO_2-R_9$ , aryl, heterocyclyl, aryl- $C_1$ - $C_{12}$ -alkyl, heterocyclyl- $C_1$ - $C_{12}$ -alkyl; or aryl, heterocyclyl, aryl- $C_1$ - $C_{12}$ -alkyl or heterocyclyl- $C_1$ - $C_{12}$ -alkyl, which are – depending on the substitution possibilities – optionally substituted in the ring with one to five substituents selected from the group consisting of halogen,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -haloalkyl or  $C_1$ - $C_6$ -haloalkoxy; or

$R_4$  and  $R_6$  together are a three- to five membered alkylene bridge, wherein one of the methylene groups may be replaced by O, S or  $SO_2$ ; and

$R_9$  is H,  $C_1$ - $C_{12}$ -alkyl which is optionally substituted with one to five substituents selected from the group consisting of halogen, hydroxy,  $C_1$ - $C_6$ -alkoxy and CN;  $C_2$ - $C_8$ -alkenyl,  $C_2$ - $C_8$ -alkinyl, aryl, heterocyclyl, aryl- $C_1$ - $C_{12}$ -alkyl, heterocyclyl- $C_1$ - $C_{12}$ -alkyl; or aryl, heterocyclyl, aryl- $C_1$ - $C_{12}$ -alkyl or heterocyclyl- $C_1$ - $C_{12}$ -alkyl, which are – depending on the substitution possibilities – optionally substituted in the ring with one to five substituents selected from the group consisting of halogen,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -haloalkyl and  $C_1$ - $C_6$ -haloalkoxy;

and, where applicable, to E/Z isomers, mixtures of E/Z isomers and/or tautomers, in each case in free form or in salt form;

with the proviso, that the compound is not an Avermectin B1a or B1b derivative when n is 1,  $R_3$  is H, and  $R_2$  is  $-CH_2-CH_2-OCH_3$  or  $-CH_2-CH_2-O$ -phenyl; is not the B1a or B1b derivative when n is 2,  $R_3$  is H, and  $R_2$  is  $-CH_2-CH_2-O$ -phenyl; is not the B1a or B1b derivative when n is 1, and  $R_2$  and  $R_3$  together are unsubstituted  $-CH_2-CH_2-CH_2-$ ; and is not the B2a or B2b derivative when n is 1,  $R_3$  is H, and  $R_2$  is  $-CH_2-CH_2-OCH_3$ .

2. A compound according to claim 1 of the formula (I) in the free form.

3. A compound according to any one of claims 1 or 2 of the formula (I), wherein wherein  $R_3$  is methyl.

4. A compound according to any one of claims 1 or 2 of the formula (I), wherein wherein  $R_3$  is  $C_3$ - $C_8$ -alkyl.

5. A compound according to any one of claims 1 or 2 of the formula (I), wherein wherein  $R_3$  is  $C_1$ - $C_8$ -alkyl which is substituted with one to five substituents selected from the group consisting of OH, halogen, CN,  $-N_3$ ,  $-NO_2$ ,  $C_3$ - $C_8$ -cycloalkyl which is optionally substituted with one to three  $C_1$ - $C_6$ -alkyl groups, norbornylenyl-,  $C_3$ - $C_8$ -Cycloalkenyl which is optionally substituted with one to three methyl groups;  $C_3$ - $C_8$ -halocycloalkyl,  $C_3$ - $C_8$ -cycloalkoxy,  $C_1$ - $C_{12}$ -haloalkoxy,  $C_1$ - $C_{12}$ -alkylthio, aryl, heterocyclyl, arylthio or heterocyclyloxy; wherein the aryl, heterocyclyl, arylthio and heterocyclyloxy groups are optionally – depending on the substitution possibilities on the ring – substituted with one to five substituents selected from the group consisting of OH, Halogen, CN,  $NO_2$ ,  $C_1$ - $C_{12}$ -alkyl,  $C_3$ - $C_8$ -cycloalkyl,  $C_1$ - $C_{12}$ -haloalkyl,  $C_1$ - $C_{12}$ -alkoxy,  $C_1$ - $C_{12}$ -haloalkoxy,  $C_1$ - $C_{12}$ -alkylthio,  $C_1$ - $C_{12}$ -haloalkylthio,  $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_6$ -alkyl,  $C_2$ - $C_8$ -alkenyl,  $C_2$ - $C_8$ -alkynyl,  $Si(C_1-C_{12}-alkyl)_3$ ,  $-X-C(=Y)-R_4$ ,  $-X-C(=Y)-Z-R_4$ , aryl, aryloxy, heterocyclyl and heterocyclyloxy.

6. A pesticide which contains at least one compound of the formula (I) as described in claim 1 as active compound and at least one auxiliary.

7. A method for controlling pests wherein a composition as described in claim 6 is applied to the pests or their habitat.